

Title (en)
TEST PAPER AND POROUS MEMBRANE

Title (de)
TESTPAPIER UND PORÖSE MEMBRAN

Title (fr)
PAPIER DE TEST ET MEMBRANE POREUSE

Publication
EP 1607741 A4 20060705 (EN)

Application
EP 04723021 A 20040324

Priority

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- JP 2003379492 A 20031110

Abstract (en)
[origin: EP1607741A1] A test paper of high measurement accuracy capable of shortening the time required for sample development (development time); and a porous membrane for use therein. In particular, a test paper comprising a porous membrane capable of separating an object that should be filtered out of a sample by filtration, the porous membrane carrying a reagent capable of reacting with a specified component of the sample to result in coloring, wherein the porous membrane comprises, a first layer having a surface on which the sample is supplied and a second layer having a surface at which sample percolation and measuring are effected, the first layer composed of large pore portions, the surface of the first layer consisting of a smooth surface having open pore portions, the second layer composed of minute pore portions the surface of the second layer consisting of a surface having open pore portions. Between the first layer and the second layer, there is a boundary extending from the surface of the first layer to 1/5 to 1/2 of the thickness of the porous membrane. The porous membrane has a thickness of 50 to 200 μm and a porosity of 60 to 95%, and the average pore diameter of the surface of the first layer is in the range of 0.5 to 10 μm while the average pore diameter of the surface of the second layer is in the range of 0.1 to 3.0 μm

IPC 8 full level
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CPC (source: EP US)
G01N 33/525 (2013.01 - EP US); **Y10T 436/255** (2015.01 - EP US)

Citation (search report)

- [A] WO 9825758 A1 19980618 - MEMTEC AMERICA CORP [US]
- [A] US 5968836 A 19991019 - MATZINGER DAVID P [US], et al
- See references of WO 2004086037A1

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